

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) Receiver antenna system of broad bandwidth comprising a plurality of active, vertical individual antennae each with an electrically-active antenna height adapted to ~~the~~ a respective received frequency range, wherein the mutual electromagnetic coupling between the individual antennae , which are positioned at a small spacing distance, is minimized, and wherein conductor portions between intermittent impedance elements of each individual antenna are of a shorter length with increasing distance from a base point.

2. (Previously Presented) Receiver antenna system according to claim 1, wherein the mutual coupling between the individual antennae is minimized by optimization of individual mechanical and electrically-active antenna heights, individual antenna diameters, spacing distances between individual antennae, and the input impedances of active base-point electronics associated with the individual active antennae.

3. (Currently Amended) Receiver antenna system according to claim 2, wherein the ~~respective~~ electrically-active antenna height of each antenna is optimized by an optimized arrangement of several impedance elements in the respective individual antennae and ~~their optimized interconnections~~ between the antennae.

4. (Previously Presented) Receiver antenna system according to claim 3, wherein

the optimized arrangement of the impedance elements relative to one another takes place both within one individual antenna and also between the individual antennae.

5. (Cancelled.)

6. (Previously Presented) Receiver antenna system according to claim 3, wherein

the interconnection of the impedance elements provides a low impedance in the case of low received frequencies, and provides a high impedance in the case of high received frequencies.

7. (Previously Presented) Receiver antenna system according to claim 6, wherein

the interconnection of the impedance elements comprises a parallel circuit comprising an inductance and an ohmic resistor or annular or tubular ferrite cores fitted onto printed conductor portions.

8. (Previously Presented) Receiver antenna system according to 2, wherein

the input impedance of the active base-point electronics provides a high-resistance input impedance in those of the individual antennae, which are determined for the reception of low-frequency transmission signals.

9. (Previously Presented) Receiver antenna system according to claim 8, wherein

the input impedance of the active base-point electronics comprises a parallel circuit comprising a high-resistance resistor and a low-capacity capacitor in

those of the individual antennae, which are determined for the reception of low-frequency transmission signals.

10. (Previously Presented) Receiver antenna system according to claim 2, wherein

the input impedance of the active base-point electronics in those of the individual antennae, which are determined for the reception of relatively high-frequency transmission signals, is designed to be of low-resistance for low-frequency transmission signals and to be at the base-point impedance of the passive antenna region of the respective individual antenna for relatively high-frequency transmission signals.

11. (Previously Presented) Receiver antenna system according to claim 10, wherein

the input impedance of the active base-point electronics in those of the individual antennae, which are determined for the reception of relatively high-frequency transmission signals, comprises a parallel circuit comprising a resistor and an inductance.

12. (Previously Presented) Receiver antenna system according to 8, wherein

the input impedance of the active base-point electronics is additionally mismatched in a targeted manner.

13. (Previously Presented) Receiver antenna system according to ~~wherein~~ 2, wherein

the received frequency ranges of the individual antennae adjoin one another and form a complete received frequency range.

14. (Currently Amended) Receiver antenna system according to claim 13, wherein phase matching networks for phase matching of the received transmission signals and a crossover network for combining [the] individual received transmission signals are connected to [the] passive antenna regions for the reception of transmission signals and to the base-point electronics ( $7_1, 7_2, \dots, 7_N$ ) for the amplification and filtering of the received transmission signals.

15. (Previously Presented) Receiver antenna system according to claim 12, wherein the input impedance of the active base-point electronics is additionally mismatched in a targeted manner outside the useful frequency range to the base-point impedance of the passive antenna region of the respective individual antenna.